



برمجة الشبكات

1:00-2:00

6/5/2023

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Faculty of Computers & Information, Assiut University

Course code: (Add the course code)

4th Level

Midterm Exam

Duration: 1 hour

This exam for the following program(s) : (Add the program's name(s))

1

الإسم الرباعي (بالعربي فقط) *

أحمد عبدالهادي أحمد محمد

2

رقم الجلوس *

162019022

3

المستوي * 

- ☐ الاول
- ☐ الثاني
- ☐ الثالث
- ☐ الرابع 2013
- ☐ الرابع 2014
- ☐ الرابع 2015
- ☐ الرابع 2016
- ☐ الرابع 2017
- ☐ الرابع 2018
- ☒ الرابع 2019

4

البرنامج * 

- ☒ عام
- ☐ بايو
- ☐ هندسة
- ☐ ذكاء صناعي

📖 * رقم المعمل

☐ ج٠

☐ د٠

☐ ه٠

☐ اب

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☐ ب٢

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☐ ج

☐ د

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6

رقم الكمبيوتر *

5

7

الكود * (قد تمت مراجعة بيانات الطالب ورقم الجلوس)

QACN

 **Will be reviewed**

8

Example Socket Blocking Call

☒ RecvFrom()

☐ Bind()

☒ Sendto()

☒ Accept()

 **Will be reviewed**

9

Session

Example of protocol operates on **layer 5 in the OSI** Model 

☒ **RPC**

☐ XNS

☐ FTP

☐ TCP

 **Will be reviewed**

10

Common internet applications 

☐ Client/server

☒ **Email**

☐ P2P architecture

☒ **Resource distribution (DNS)**

 **Will be reviewed**


11

to use the "**using**" control structure the type must 

- ☒ implement the interface **IDisposable**
- ☐ implement the interface ICompiler
- ☐ implement the interface IDisposed
- ☐ implement the interface Iformatter:

 **Will be reviewed**

12

The following are **network applications** Except 

- ☐ Text, Audio and video chat.
- ☐ Video broadcast and multicast.
- ☐ Web browser
- ☒ **Compiler**

 **Will be reviewed**


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All of these are **Network benefits** Except 

- ☐ Sharing resources
- ☐ Load Sharing/utilization
- ☐ High reliability
- ☒ **Enhance Security**

 **Will be reviewed**

14

Network Programming involves writing programs that communicate with other programs across a computer network 

☒ True

☐ False

 **Will be reviewed**

15

Connection oriented Socket obj parameters are : 

☒ AddressFamily.InterNetwork

☒ SocketType.Stream

☐ SocketType.Dgram

☒ ProtocolType.Tcp

☐ ProtocolType.Udp

☐ ProtocolType.Raw

 **Will be reviewed**

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Major INTEROPERABILITY advantages 

☒ Code Reuse


☒ Eases maintenance, updating of system

☐ Communication

☐ Reliability

 **Will be reviewed**

17

Identify the output 

☒ Length of simple-types.bin: 29


☐ Length of simple-types.bin: 33

☐ Length of simple-types.bin: 25

☐ Length of simple-types.bin: 17

 **Will be reviewed**

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The most common managed programming language from Microsoft 

☐ C#.net

☒ Vb.net

☐ C++

☐ JAVA

✍ Will be reviewed

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The pic demonstrates 

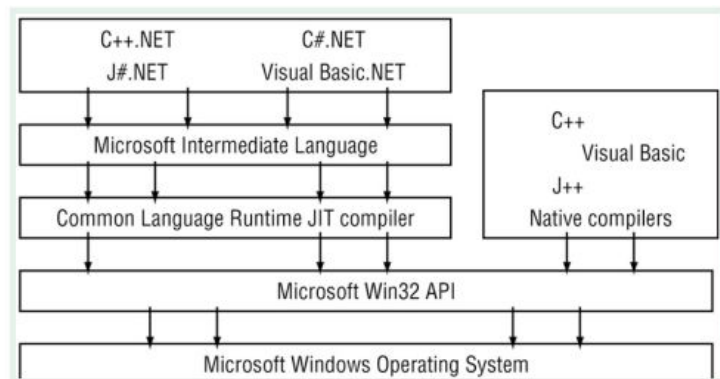
- ☐ Threading
- ☐ Multiprograming
- ☐ Multicore CPU architecture
- ☒ none of the answers are correct

✍ Will be reviewed

20

The **layers which is uniquely exist** to mimic managed code is 

- ☒ MSIL
- ☒ CLR JIT complier
- ☒ win32 API
- ☐ Windows OS



✍ Will be reviewed

21

ADAPTER CLASSES are set of classes provided by FCL to support reading and writing in higher level such as



☒ StreamReader

☒ BinaryReader

☐ FileStream

 **Will be reviewed**

22

Circuit switched is



☒ dedicated circuit per call

☒ performance (guaranteed)

☒ resources used as needed

☒ setup required

 **Will be reviewed**

23

The upper stream is an _____ and the lower is _____ 

☐ Output , input

☒ input , output

☐ input, input

☐ output,output

 **Will be reviewed**

24


the [OnSerialized()] attribute is to identify the method invoked . . .



- ☒ After obj Serialization
- ☐ After obj DeSerialization
- ☐ During obj Serialization
- ☐ During obj DeSerialization

 **Will be reviewed**


25

_____ is the best way to save objects in streams so that we can "send" it any where or even save it immediately 

- ☒ Serialization
- ☐ Saving to file
- ☐ Inserting into database
- ☐ sending through networks

 **Will be reviewed**

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The most Basic network Architecture is in terms of setup and cost 

☒ Client/server

☐ P2P

 **Will be reviewed**

27

Reads primitive data types as **binary values** in a specific encoding 

☒ **BinaryReader**

☐ BinaryWriter

☐ FileStream

☐ StreamReader

 **Will be reviewed**

28

Sensor Networks



☒ Small devices equipped by sensor and connected to the


☒ May include an environmental actuation

☒ Run on batteries

☐ Location don't matter

 **Will be reviewed**

29

This pic shows how to use `AutoResetEvent`, why we are using that during managing threads ? 

- ☐ so that we can avoid RACE CONDITION?
- ☒ to control shared variable between objects
- ☐ to lock the code
- ☐ none of the answers are correct

 **Will be reviewed**

30

The host with truncated upper layers may be 

- ☐ Router
- ☒ Server
- ☐ Switch
- ☐ none of the answers are correct

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